IN THE CLAIMS

Please amend the claims as indicated hereinbelow. This listing of the claims hereinbelow replaces all prior versions.

- 1. -88. (Cancelled)
- 89. (Previously Presented) Macroscopic amounts of a fullerene isolated from a sooty carbon product formed from vaporizing elemental carbon soot in the presence of an inert quenching gas.
- 90. (Previously Presented) A fullerene, isolated from a sooty carbon product formed from vaporizing elemental carbon in the presence of an inert quenching gas, as a visible product.
- 91. (Previously Presented) The fullerene of Claim 90 isolated as a solid product.
- 92. (Previously Presented) A fullerene chemically produced that is recovered as a visible solid.
- 93. (Previously Presented) Macroscopic amounts of an allotrope of carbon consisting solely of carbon atoms, and soluble in non-polar solvents, which allotrope of carbon is neither graphite nor diamond, and which alleotrope of carbon is isolated from a sooty carbon product formed from vaporizing elemental carbon in the presence of an inert quenching gas.
- 94. (Cancelled)
- 95. (Previously Presented) A substantially pure product of any one of Claims 89-93.
- 96. (Previously Presented) A substantially pure crystalline product of any one of Claims 89-93.
- 97. (Previously Presented) A cage carbon allotrope consisting solely of carbon atoms

that is isolated from a sooty carbon product formed from the vaporization of carbon in the presence of an inert quenching gas as a visible product, said allotrope of carbon being neither graphite nor diamond, and said allotrope of carbon being soluble in non-polar organic solvents.

- 98. (Currently Amended) A visible solid carbon product prepared by the process comprising:
 - (a) vaporizing elemental carbon in the presence of an inert quenching gas under conditions effective to provide a sooty carbon product comprising fullerene molecules;
 - (b) depositing the sooty carbon product on a collecting substrate;
 - (c) removing the sooty carbon product from the collecting substrate;
 - (d) contacting the sooty carbon product with a non-polar organic solvent effective to dissolve the fullerene molecules in said sooty carbon product; and
 - (e) recovering from said <u>visible</u> solvent a solid carbon product comprising [a] fullerene, said <u>visible</u> solid carbon product being substantially fullerene.
- 99. (Currently Amended) A visible solid carbon product prepared by the process comprising:
- (a) vaporizing elemental carbon in the presence of an inert quenching gas under conditions effective to provide a sooty carbon product comprising fullerene molecules;
 - (b) depositing the sooty carbon product on a collecting substrate;
- (c) removing the sooty carbon product comprising fullerene from the sooty carbon product;
- (d) subliming the carbon product comprising fullerene from the sooty carbon product; and
- (e) condensing the sublimed carbon product and recovering therefrom a <u>visible</u> solid carbon product being substantially [a] fullerene.

- 100. (Currently Amended) The <u>visible</u> solid carbon product of Claim 98 or 99 wherein the process further comprises:
 - (f) purifying the carbon product of step (e).
- 101. (Currently Amended) The <u>visible</u> solid carbon product of Claim 98 or 99 wherein elemental carbon is graphite, amorphous carbon or glassy carbon.
- 102. (Currently Amended) The <u>visible</u> solid product of Claim 98 or 99 wherein the inert quenching gas is a noble gas.
- 103. (Currently Amended) The <u>visible</u> solid product of Claim 98 or 99 wherein the carbon is vaporized in a reaction vessel which has been evacuated prior to the carbon vaporization step.
- 104. (Previously Presented) A fullerene present in amounts sufficient to be visible.
- 105. (Previously Presented) A visible amount of fullerene in solid form.
- 106. (Previously Presented) A visible amount of fullerene produced by vaporizing carbon in the presence of an inert quenching gas to produce a sooty carbon product comprising fullerene and separating and isolating the fullerene thus produced therefrom, said fullerene being present in solid form.
- 107. (New) Macroscopic amounts of a fullerene.